

Cardiff MRCS OSCE Course: Applied Surgical Sciences and Critical Care

Date: 20th September 2018

Time: 0825 – 1900 hrs;

Venue: Physiology Lecture Theatre, School of Biosciences, Cardiff University

COURSE PROGRAMME

0815 - 0825 **Registration**

MORNING SESSION

0820 - 0830 **Welcome, Introduction and Format (Prof Stuart Enoch)**

0830 - 0930 **Physiological Principles in the Management of Trauma (Prof Stuart Enoch)**

- Long bone fractures
- Fracture neck of femur
- Pelvic fractures
- Polytrauma
- Compartment syndrome
- Nerve injuries

0930 - 1040 **Respiratory System (Dr Teresa Evans)**

- Normal ventilatory cycle
- Controls of ventilation
- Causes and management of post-operative respiratory failure
- Indications for ventilatory support and weaning off ventilator
- Intermittent positive pressure ventilation
- Acute (adult) respiratory distress syndrome

1040 - 1055 Coffee Break

1100 - 1135 **General Physiological Principles 1 (Dr Paul Morgan)**

- Homeostasis, feedback loops
- Applied acid-base balance

1135 - 1210 **General Physiological Principles 2 (Dr Paul Morgan)**

- Sepsis
- Septic shock

1210 - 1245 **General Physiological Principles 3 (Dr Paul Morgan)**

- Bleeding
- Coagulation/Anti-coagulation

AFTERNOON SESSION

1340 - 1410 **Resuscitation, Temperature Regulation, and Hypothermia (Dr Paul Morgan)**

1410 - 1450 **Principles of Epidural Anaesthesia/Assessment; Pain pathways;
Pre-op Assessment (Dr Paul Morgan)**

1450 - 1520 **Central nervous system (Dr Paul Morgan)**

- Cerebral autoregulation
- Causes and management of raised intra-cranial pressure
- Head Injury

1550 - 1630 **Management of Burns (Prof Stuart Enoch)**

- Assessment
- Pathophysiology and principles of management
- Inhalation burns
- Fluids and Nutrition
- Indications for referral

1630 - 1700 **Wound Healing, Reconstruction and LA (Prof Stuart Enoch)**

1700 - 1730 **Spinal Cord Injuries and Syndromes (Prof Stuart Enoch)**

1730 - 1745 **Rhabdomyolysis (Prof Stuart Enoch)**

1800 - 1845 **OSCE topics in Surgical Critical Care and Surgical Microbiology (Prof Stuart Enoch)**

1900 **END OF COURSE!**